

ABSTRACT

In wireless communications between first and second frequency hopping wireless communication devices, both devices can dwell on a single selected frequency (f_{11}) for selected types of data transmissions such as large data bursts and data requiring an enhanced quality of service. For a large data burst, the data transmission rate can also be increased (DH5) during the duration (T_i) of the frequency dwelling, thereby reducing the transmission time of the burst. In addition, the combination of frequency dwelling with an increased data transmission rate can advantageously be used to free time slots in a wireless communication link between the devices, which freed time slots would not otherwise be available.